

We claim:

Suba
1. A plug-in connector for an electrical device, comprising:

a plastic member including a material having conductive properties at voltages above a given working voltage range and having insulating properties at voltages in the given working voltage range; and

contact pins embedded in said plastic member.

2. The plug-in connector according to claim 1, wherein:

said material is disposed in a form-fitting manner around said contact pins;

said plastic member has a conducting surface; and

said conducting surface electrically contacts said material and is disposed at a respective spacing distance from said contact pins.

3. The plug-in connector according to claim 1, wherein said material is a varistor material.

4. The plug-in connector according to claim 2, wherein said material is a varistor material.

5. The plug-in connector according to claim 1, wherein said material is a mixture of a plastic and a carbon powder.

6. The plug-in connector according to claim 2, wherein said material is a mixture of a plastic and a carbon powder.

7. The plug-in connector according to claim 1, wherein:

said plastic member includes a base material; and

said material is a mixture of said base material and a carbon powder.

8. The plug-in connector according to claim 2, wherein:

said plastic member includes a base material; and

said material is a mixture of said base material and a carbon powder.

Suba2) 9. The plug-in connector according to claim 5, wherein said material includes between 5 and 15 percent by weight of said carbon powder.

10. The plug-in connector according to claim 1, wherein said plastic member includes a crystalline component and a noncrystalline component.

Suba3 11. In combination with an electrical device having electrical components, a plug-in connector, comprising:

a plastic member including a material having conductive properties at voltages above a given working voltage range and having insulating properties at voltages in the given working voltage range; and

contact pins embedded in said plastic member.

12. The plug-in connector according to claim 11, wherein:

said material is disposed in a form-fitting manner around said contact pins ;

said plastic member has a conducting surface; and

said conducting surface electrically contacts said material and is disposed at a respective spacing distance from said contact pins.

13. The plug-in connector according to claim 11, wherein said material is a varistor material.

14. The plug-in connector according to claim 12, wherein said material is a varistor material.

15. The plug-in connector according to claim 11, wherein said material is a mixture of a plastic and a carbon powder.

16. The plug-in connector according to claim 12, wherein said material is a mixture of a plastic and a carbon powder.

17. The plug-in connector according to claim 11, wherein:

said plastic member includes a base material; and

said material is a mixture of said base material and a carbon powder.

18. The plug-in connector according to claim 12, wherein:

said plastic member includes a base material; and

said material is a mixture of said base material and a carbon powder.

Sub 41 19. The plug-in connector according to claim 15, wherein said material includes between 5 and 15 percent by weight of said carbon powder.

20. The plug-in connector according to claim 11, wherein said plastic member includes a crystalline component and a noncrystalline component.